



Bench - Top Temperature & Humidity Chamber **HTM · HTP** SERIES

[Patent No. 10-1545206]

Freezer control device of energy-saving
thermo-hygrostat

Max. **30%**
SAVING ENERGY





HTM·HTP series

Bench-Top Temperature & Humidity Chamber

Application

Small sample environmental tests

Semiconductor, electronic parts and other temperature and humidity changes test

Food, ecology, fiber, pharmaceutical and other stability test

Functions



Easy touch



Digital Recorder Function



Various communication



Multilingual support



Free support PC S / W

Special Features



Convenient water supply

The slide-type bucket located at the bottom of the main body makes it easy to supply water from the front



Dry bulb, wet bulb sensor

The use of a highly reliable dry and wet bulb control method, access to precision test results and can be designed for a long time test.



Using low power consumption

Low power (Max. 220V/12.5A) consumption design allows connection to general outlets



low noise

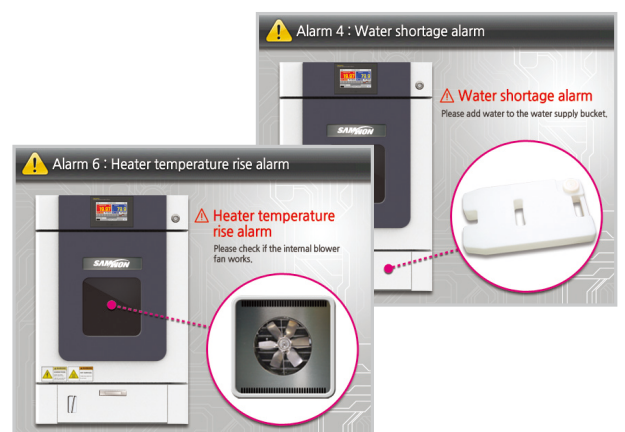
Using a BLDC motor, such as the laboratory, the office requires a quiet, suitable for indoor use 59dB below the low noise.



Remote network system



Inspection system error is convenient



When an error occurs in the system, the contents of each error will be displayed on the display, the fastest confirmation and response.



Bench-top temperature & humidity chamber supports your reliability test with remarkable high performance

Prevent sample condensation control

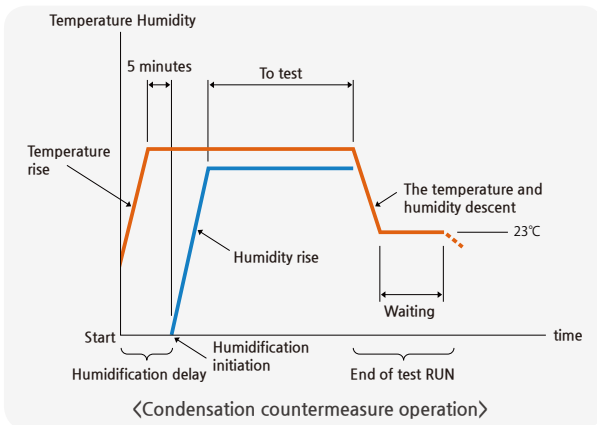
In order to prevent the sample from being damaged due to dew condensation, an increase in the prevention of condensation operation is caused when the temperature and humidity are increased and errors occur.

Humidification delay operation

In order to prevent condensation, to suppress the temperature and humidity rise when the speed of change, set the temperature to reach the waiting temperature of 5 minutes → start with humidification program to start running.

The trial runs

After the end of the test, the laboratory of humidification water drainage → laboratory drop to 23 °C → wait for the end of the test.



Cut off overheating, overcurrent

By cutting off the use of overheating (applicable to electronic, electrical mechanical triple cutting device) and over-current to protect the safety of the machine and the user.



Compact size

To a smaller size, but also in the laboratory, the office as small space to use.



Service port

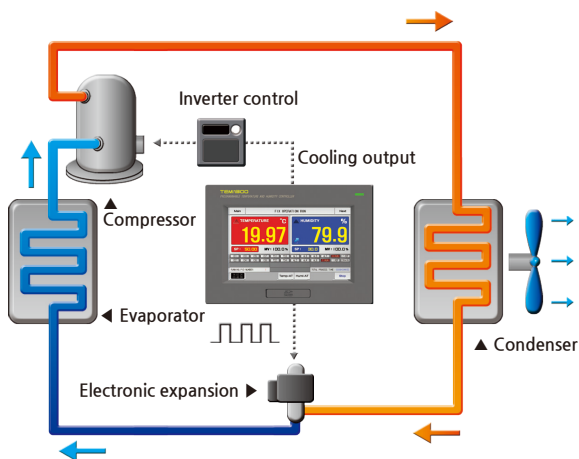
Provides user's desired output such as communication, operation, alarm, time signal (RUN, Alarm, Time Singal) as relay contact



Cable port

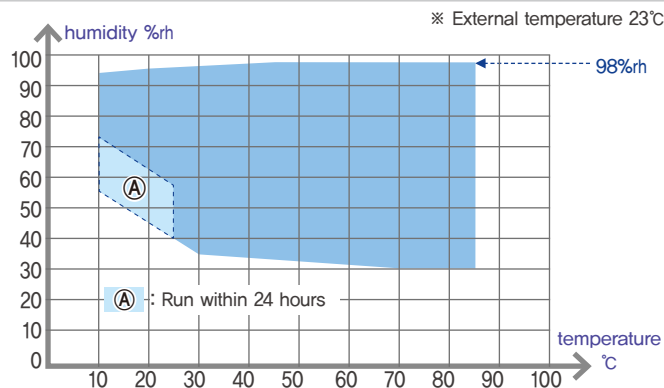
On the side of the main body, install a cable port that can be connected to the power supply of the sample and the connection for easy measurement.

Energy saving (Up to 30% savings compared to using the same capacity freezer)



To control the inverter and adjust the electronic expansion valve with heating and cooling output, control the optimum amount of refrigerant in each section to adjust the waste heat and control the refrigerant to achieve energy saving. [Patent No. 10-1545206]

Temperature · humidity can control the range



In the repeated rise and fall when the performance will not be low and then can design a variety of tests.

- ⚠ When using humidified water, use distilled water. When using ordinary water, heater life is shortened.
- During sub-zero operation, condensation may form on the door depending on the surrounding environment.

Product Specifications

Division	24		26		64		66		
	HTM	HTP	HTM	HTP	HTM	HTP	HTM	HTP	
Temp.	Range	-40.0~150.0°C		-60.0~150.0°C (Att.1)		-40.0~150.0°C		-60.0~150.0°C (Att.1)	
	Fluctuation range	±0.3°C							
	Fall time	20.0~-40.0°C Within about 60 min		20.0~-60.0°C Within about 80 min		20.0~-40.0°C Within about 70 min		20.0~-60.0°C Within about 90 min	
	Rise time	-40.0~150.0°C Within about 60 min		-60.0~150.0°C Within about 70 min		-40.0~150.0°C Within about 70 min		-60.0~150.0°C Within about 80 min	
	Distribution	±1.0°C (-60.0~100.0°C) ±2.0°C (100.1~150.0°C)							
Humi.	Range	30.0~98.0%RH	-	30.0~98.0%RH	-	30.0~98.0%RH	-	30.0~98.0%RH	-
	Fluctuation range	±1.0%RH	-	±1.0%RH	-	±1.0%RH	-	±1.0%RH	-
	Distribution	±2.0%RH	-	±2.0%RH	-	±2.0%RH	-	±2.0%RH	-
Material / Configuration part	Internal material	Stainless steel plate(SUS304)							
	External material	Cold rolled steel sheet / Powder coating							
	Insulation material	Aerogel, Urethane foam							
	Fan	Impeller fan							
	Compressor	Scroll(Inverter type)		Scroll(Inverter type), Binary refrigeration		Scroll(Inverter type)		Scroll(Inverter type), Binary refrigeration	
	Condenser	Air-cooled		Cascade + Air-cooled		Air-cooled		Cascade + Air-cooled	
	Refrigerant	R404A		R23, R404A		R404A		R23, R404A	
	Evaporator	Air-cooled plate pin cooler							
	Heater	Nichrome strip wire heater							
Humidifier	Stainless steel cartridge heater	-	Stainless steel cartridge heater	-	Stainless steel cartridge heater	-	Stainless steel cartridge heater	-	
Laboratory capacity(W*H*D)	300*300*250(22.5L)				400*400*400(64L)				
Dimensions(W*H*D)	450*690*815		450*690*990		550*790*970		550*790*1170		
Weight	107Kg		120Kg		137Kg		178Kg		
Operating ambient temperature	+5~35°C								
Safety specifications	Control circuit cutoff, Temperature and rise prevention, Overload relay, Refrigerator protection circuit, Earth leakage circuit breaker, External alarm terminal, Water shortage alarm								
Power specifications	220V AC 1ϕ 50/60Hz <Operation within ± 10%>								
	220V, 9A	220V, 8A	220V, 9.5A	220V, 8.5A	220V, 11.5A	220V, 9.5A	220V, 12.5A	220V, 10.5A	

* Temperature and humidity specifications is no sample, is the performance of the stability of the value. ※ (Att. 1) : Please contact us for -70 °C. ※ Size unit : mm

Option

Direct-acting device

Devices that can directly supply humidification water

※ Please, If there is an option, add it when ordering.

Model Code

HT * F * * - * / *

RUN

M : Temperature & Humidity chamber

P : Temperature chamber

Capacity

2 : 22.5L | **6** : 64L

Temperature range

4 : -40~150°C | **6** : -60~150°C

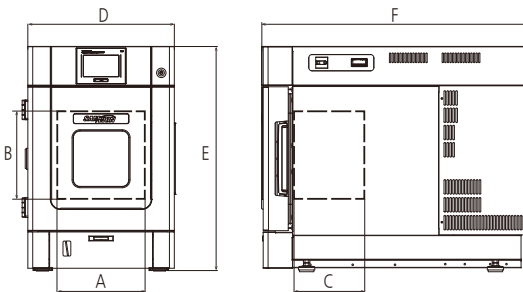
Power

0 : 220V AC

Communication option

C2 : RS232C | **C4** : RS485 | **CE** : Ethernet

Appearance Dimensions



Model	HT*F24	HT*F26	HT*F64	HT*F66
A	300	300	400	400
B	300	300	400	400
C	250	250	400	400
D	450	450	550	550
E	690	690	790	790
F	815	990	970	1170

(Unit : mm)



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